

AMENDMENTS TO THE CLAIMS

1-13. (Cancelled)

14. (NEW) An imaging system comprising:

means for converting non-visible radiation representative of an object into visible radiation representative of an object;

means for collecting the visible radiation representative of an object;

means for focusing the visible radiation representative of an object;

means for receiving the focused visible radiation representative of an object;

means for imaging the focused visible radiation to form an image of the object; and

means for manipulating the image of the object in order to identify characteristics of the object.

15. (NEW) An imaging system comprising:

a non-visible radiation source;

an object to be imaged;

a transmissive screen for converting non-visible radiation from the non-visible radiation source into visible radiation after the non-visible radiation passes through the object to be imaged;

a transmissive optical coating on the transmissive screen for concentrating the visible radiation from the transmissive screen; and

an optical focusing system for focusing the concentrated visible radiation from the transmissive optical coating onto an imaging device.

16. (NEW) The imaging system of claim 15, wherein the non-visible radiation is x-ray radiation.
17. (NEW) The imaging system of claim 15, wherein the transmissive optical coating contains microspheres.
18. (NEW) The imaging system of claim 15, wherein the imaging system further includes a binder layer, binding the transmissive screen to the transmissive optical coating.
19. (NEW) The imaging system of claim 18, wherein the binder layer has a first optical index and a predetermined thickness and each microsphere of the transmissive optical coating has a second optical index and a predetermined focal point.
20. (NEW) The method according to claim 19, wherein the second optical index is higher than the first optical index.
21. (NEW) The method according to claim 19, wherein the predetermined thickness of the binder layer is approximately equal to the predetermined focal point of each of the microspheres.

REMARKS